TRANSLATION PATENT COOPERATION TREATY POT INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000055294	FOR FURTHER ACTION See Fo		Form PCT/IPEA/416						
International application No.	International filing date (day)	month/year) Prior	ity date (day/month/year)						
PCT/EP2005/000717	26.01.2005		9.01.2004						
	onal classification and IPC								
International Patent Classification (IPC) or national classification and IPC									
C07C253/10 C07C253/30									
Applicant									
BASF AKTIENGESELLSCHAFT									
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This REPORT consists of a total of	5	sheets, including this	cover sheet.						
3. This report is also accompanied by A	NNEXES, comprising:	_							
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· · · · · · · · · · · · · · · · · · ·	to the International Bureau) a		sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
sheets which supers	ede earlier sheets, but which t	his Authority considers	contain an amendment that goes beyond						
the disclosure in the	e international application as (iled, as indicated in ite	m 4 of Box No. I and the Supplemental						
Box.									
b (sent to the International	Bureau only) a total of (indicat	e type and number of el	ectronic carrier(s))						
		. , c o	ntaining a sequence listing and/or tables						
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This report contains indications relati	ng to the following items:								
Box No. I Basis of the	report								
		•							
Box No. II Priority									
Box No. III Non-establi	shment of opinion with regard	to novelty, inventive ste	p and industrial applicability						
Box No. IV Lack of uni	Box No. IV Lack of unity of invention								
2 20x 1.0. V	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
Box No. VI Certain doc	Box No. VI Certain documents cited								
Box No. VII Certain def	ects in the international applica	tion							
Box No. VIII Certain obs	Box No. VIII Certain observations on the international application								
Date of submission of the demand	. Date o	f completion of this repo	· ·						
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Name and mailing address of the IPEA/EP	Author	rized officer	•						
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Facsimile No	Telent	Telephone No							

Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2005/000717

Box	No. I	Basis of the report						
1.		I to the language, this report is based on the internationder this item.	nal application in the language in	which it was filed, unless otherwise				
	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:							
	international search (Rule 12.3 and 23.1(b))							
		publication of the international application (Rule 12.4)					
		international preliminary examination (Rule 55.2 and	/or 55.3)					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
	the in	ternational application as originally filed/furnished		·				
	the de	escription:						
	pages	1-34		as originally filed/furnished				
	pages		received by this Authority on					
	pages	· ·	received by this Authority on					
	the cl	aims:						
	nos.			as originally filed/furnished				
	nos.*		as amended (togethe	er with any statement) under Article 19				
	nos.*	1-12	received by this Authority on	28.11.2005 with letter of 23.11.2005				
;	nos.*		received by this Authority on					
	N the di	rawings:						
	sheet			as originally filed/furnished				
·	sheet		received by this Authority on					
	sheet							
		•						
<u> </u>	a sequ	uence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence 1	Listing.				
3.	The a	mendments have resulted in the cancellation of:	•					
		the description, pages	<u> </u>	·				
		the claims, nos.		<u> </u>				
		the drawings, sheets/figs	••••	· · · · · · · · · · · · · · · · · · ·				
		the sequence listing (specify):	·					
		any table(s) related to sequence listing (specify):	· · · · · · · · · · · · · · · · · · ·					
4.		report has been established as if (some of) the amend have been considered to go beyond the disclosure as fi						
		the description, pages	· · · · · · · · · · · · · · · · · · ·	·				
		the claims, nos.						
		the drawings, sheets/figs		•				
		the sequence listing (specify):						
*	If item 4 ap	plies, some or all of those sheets may be marked "sup						

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International application No.
PCT/EP2005/000717

Box			tide 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	·
l.	Statement		•	
	Novelty (N)	Claims	1-12	YES
		Claims		NO
	Inventive step (IS)	Claims	1-12	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-12	YES
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - This report makes reference to the following documents:

D1 = WO-A-03/011457

D2 = US-A-6 242 633

D3 = US-A-2001/0014647

D4 = FR-A-2 830 530

D5 = DE-A-100 46 025

D6 = US-A-3 496 215

- Method for producing adipodinitrile by hydrocyanation of 1,3-butadiene in which two consecutive hydrocyanations take place, characterized in that a catalyst from at least one of the method steps is transferred to the other method step. Steps (a) to (e) are cited and comprise the method.
- 3. The prior art does not contain a prior description of steps (b), (c) and (e). Therefore, claim 1 meets the requirements of PCT Article 33(2).

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 4. One of the problems to be solved by the present application is that of providing an integrated method for producing apodinitrile by double hydrocyanation of 1,3-butadiene that enables the catalyst cycles of the two hydrocyanations to be connected during the production of adipodinitrile. The solution is the method according to claim 1, in particular steps (b), (c), and (e), and the indication that the catalyst from at least one step is transferred to ther other method step.
- Although the prior art describes 5. hydrocyanation methods, it never describes a method with all of the technical features of claim 1. The advantage of the method is that the same Ni(O) catalyst can be used in all of the method steps (with the addition of Lewis acid in the second hydrocyanation step), and the cataylst can be transferred to the other method step, even from method step (e) back to step (a). The cited prior art contains nothing relating to this procedure that could have led a person skilled in the art to the present method. Therefore the method according to claim 1 meets the requirements of PCt Article 33(3).
- 6. Claims 2-12 are dependent on claim 1 and therefore likewise meet the PCT requirements

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.

for novelty and inventive step.

7. Contrary to the requirements of PCT Rule 5.1(a)(ii), the description neither cites documents D1-D6 nor indicates the relevant prior art contained therein.